

EXECUTIVE SUMMARY

This technical report is one of several documents that, taken together, support the NOAA Fisheries (National Marine Fisheries Service, or NMFS) proposed Status Review of West Coast Evolutionarily Significant Units (ESUs) of Pacific salmon and steelhead and implements the proposed Hatchery Listing Policy. This report details the information and analyses presented at NOAA Fisheries' Artificial Propagation Evaluation Workshop held in April 2004 and incorporates comments and input received.

In considering species for listing under the Endangered Species Act (ESA), section 3 of the ESA requires NOAA Fisheries to take the following steps:

- (1) Determine which hatchery-origin and natural-origin Pacific salmon and steelhead constitute an ESU.
- (2) Assess the biological status of the entire ESU, natural-origin fish and hatchery-origin fish included.
- (3) Determine whether any protection efforts mitigate threats to the ESU.
- (4) Finally, based on the previous steps, assess whether the ESU is "endangered" or "threatened" or ESA listing is "not warranted".

This report describes the first two steps in its consideration of 27 Pacific salmon and steelhead ESUs located in Idaho, Washington, Oregon, and California. The conclusions resulting from those steps are summarized in Table ES.1 on the following page.

In developing this report, NOAA Fisheries worked to compile and consider the best available scientific information. In the years since "hatchery reform" first started, the artificial propagation of Pacific salmon has evolved rapidly, as has hatchery science. Recognizing this, NOAA Fisheries invites comments on all aspects of this report. Comments or any questions should be directed to:

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Table ES.1. ESU Technical Assessments

Evolutionarily Significant Unit (ESU)	BRT Findings	Recommendation made in this report (based on the entire ESU)	Number of artificial propagation programs Included in the ESU
Puget Sound Domain			
Puget Sound Chinook	Threatened	Threatened	22
Hood Canal summer-run chum	Threatened	Threatened	8
Ozette Lake sockeye	Endangered	Endangered	1
Snake River Domain			
Snake River sockeye	Endangered	Threatened	2
Snake River spring/summer-run chinook	Threatened	Threatened	15
Snake River fall-run chinook	Threatened	Threatened	4
Snake River Basin <i>O. mykiss</i>	Threatened	Threatened	6
Upper Columbia Domain			
Upper Columbia River spring-run chinook	Endangered	Endangered	6
Upper Columbia River <i>O. mykiss</i>	Endangered	Threatened	6
Middle Columbia Domain			
Middle Columbia River <i>O. mykiss</i>	Threatened	Threatened	7
Lower Columbia Willamette Domain			
Lower Columbia River chinook	Threatened	Threatened	17
Columbia River chum	Threatened	Threatened	3
Lower Columbia River <i>O. mykiss</i>	Threatened	Threatened	10
Lower Columbia River coho	Endangered	Threatened	21
Upper Willamette River chinook	Threatened	Threatened	7
Upper Willamette River <i>O. mykiss</i>	Threatened	Threatened	0
Oregon and Northern California Coast			
Oregon Coast coho	Threatened	Threatened	5
Southern OR/North CA Coast coho	Threatened	Threatened	3
California			
Northern California <i>O. mykiss</i>	Threatened	Threatened	2
California Coastal chinook	Threatened	Threatened	7
Central California Coast coho	Threatened	Threatened	4
Central California Coast <i>O. mykiss</i>	Threatened	Threatened	2
South-Central California Coast <i>O. mykiss</i>	Threatened	Threatened	0
California Central Valley <i>O. mykiss</i>	Threatened	Threatened	2
Central Valley spring-run chinook	Threatened	Threatened	0
Sacramento River winter-run chinook	Endangered	Threatened	2
Southern California <i>O. mykiss</i>	Endangered	Endangered	0